

*FIG. 1*

DISK DRIVE OVERVIEW & COMPUTER INTERFACE

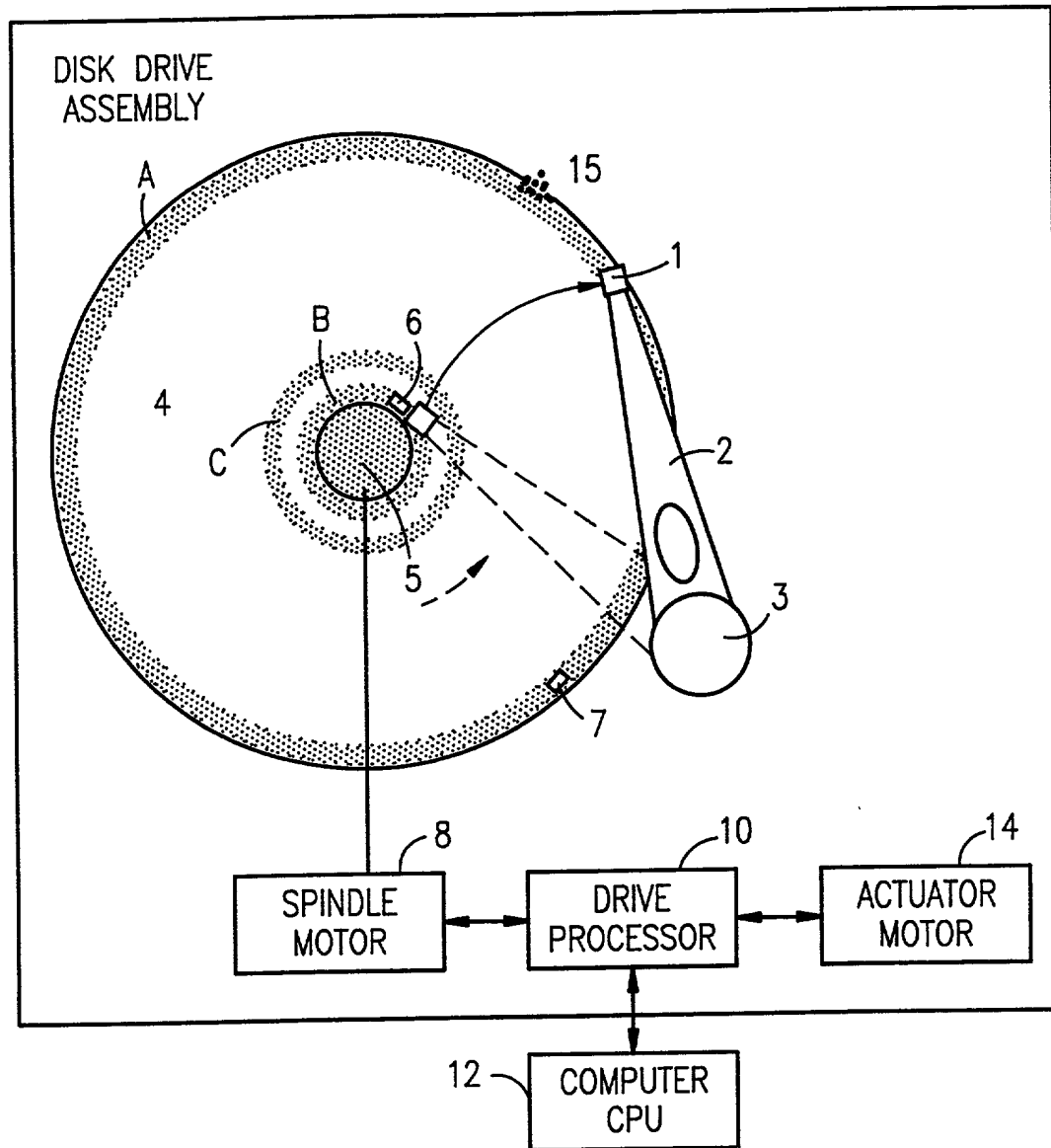


FIG. 2

DUAL ACCESS READ-NO LATENCY

TYPICAL DISK READ ACCESS

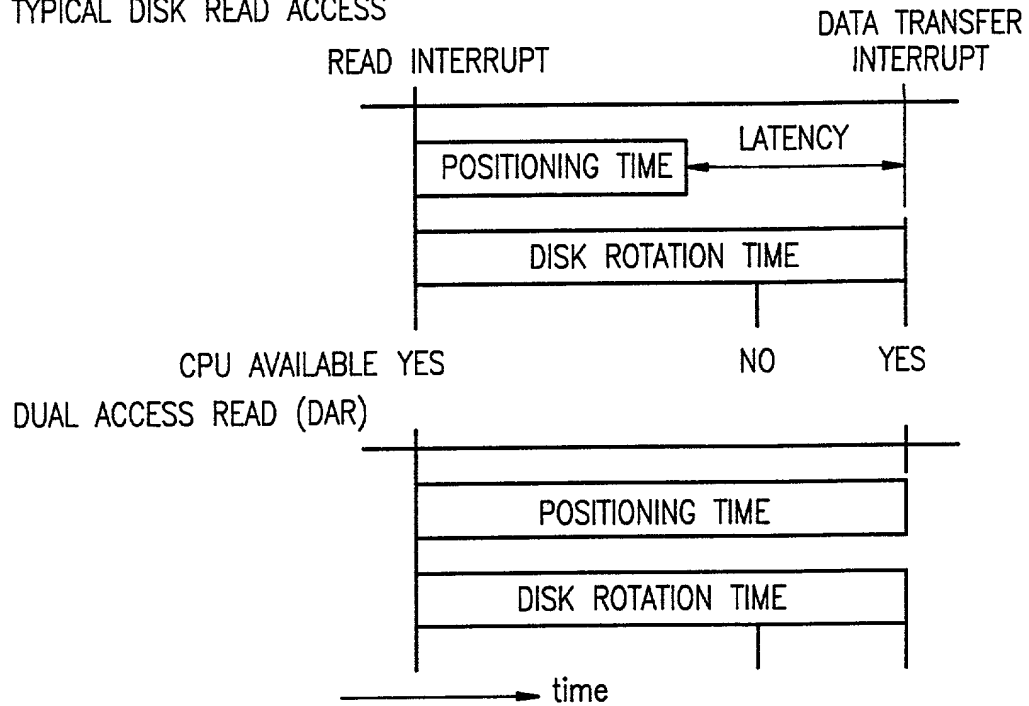
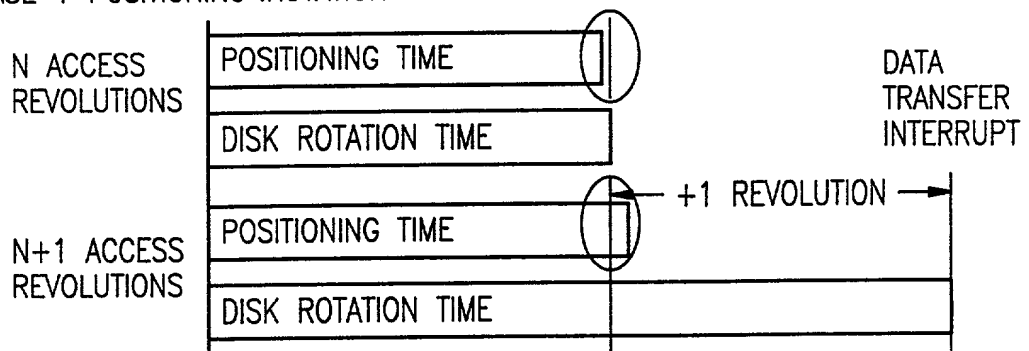


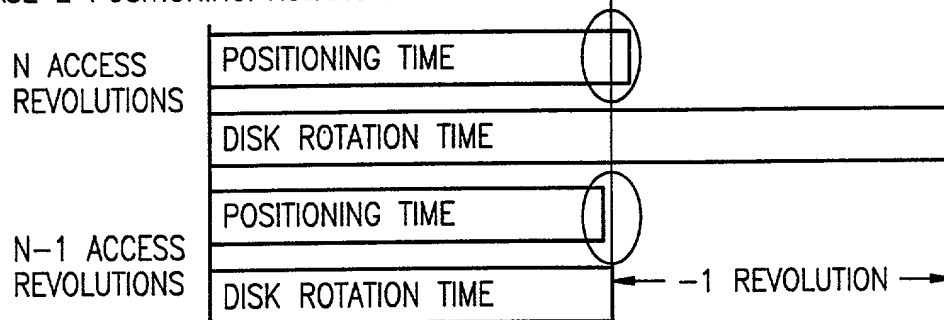
FIG. 3

AMPLIFYING POSITIONING VARIANCE-MEASURE REVOLUTION TIME

CASE 1 POSITIONING < ROTATION

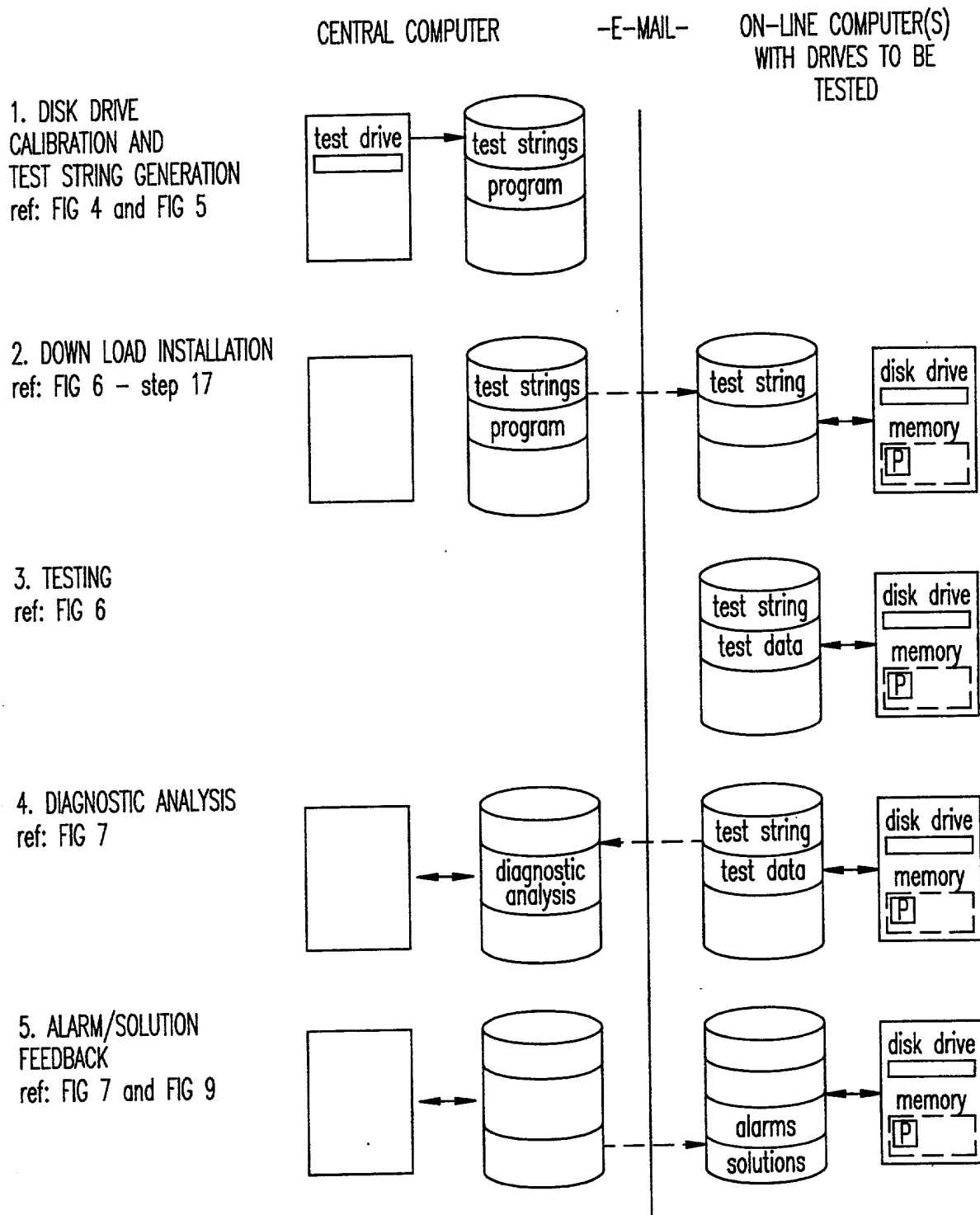


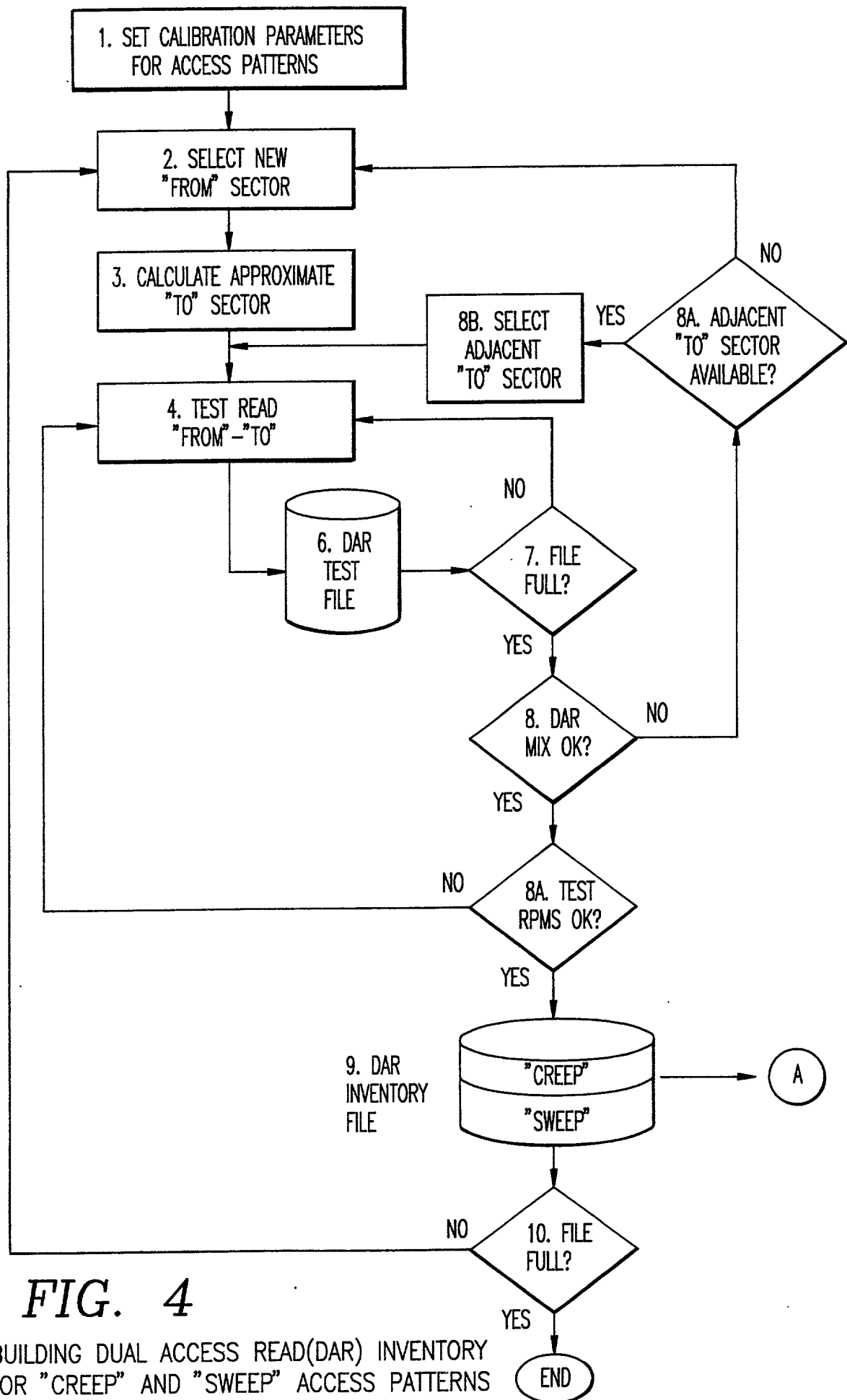
CASE 2 POSITIONING > ROTATION



# FIG. 3a PREFERRED EMBODIMENT

FOR PROVIDERS OF WARRANTY SERVICE AND  
REPLACEMENT COMPUTER PRODUCTS



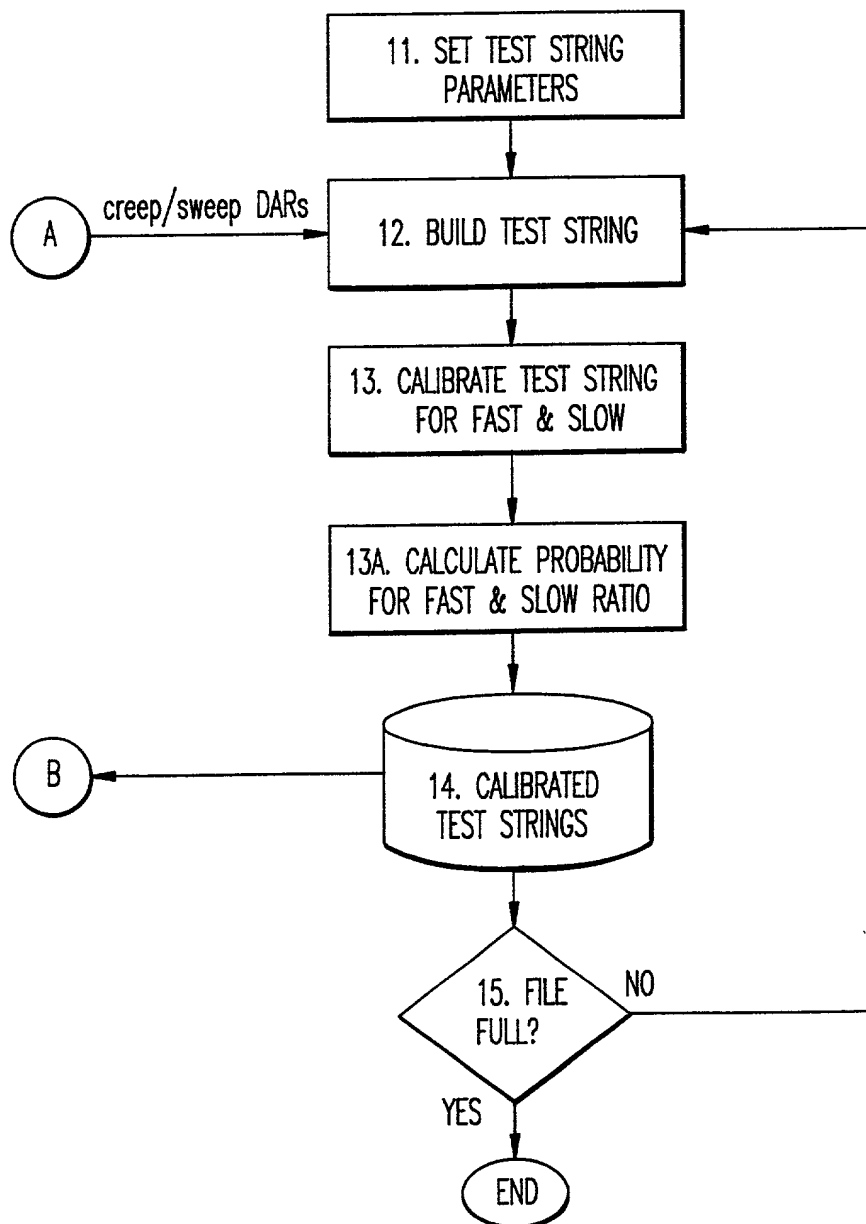


**FIG. 4**

BUILDING DUAL ACCESS READ(DAR) INVENTORY FOR "CREEP" AND "SWEEP" ACCESS PATTERNS

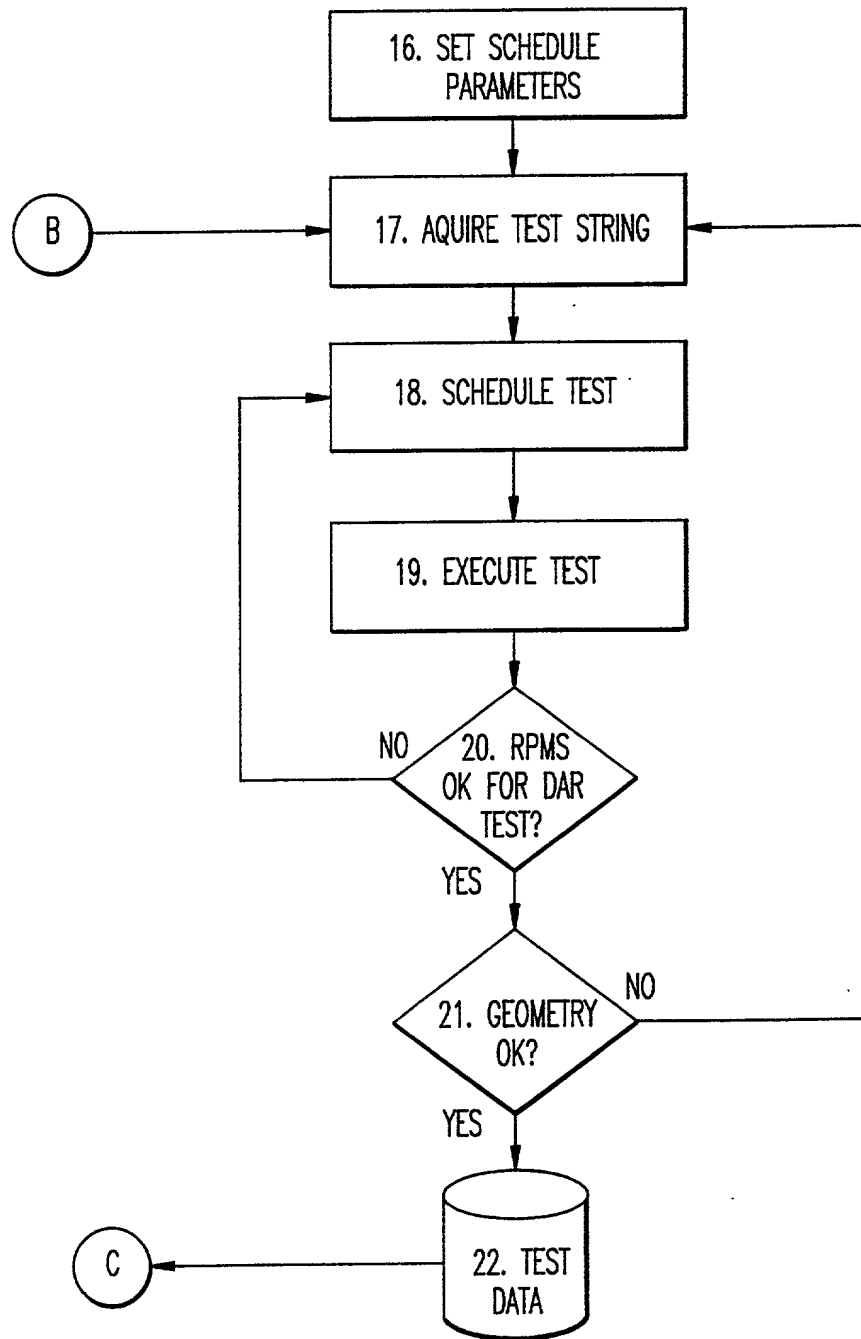
# FIG. 5

## GENERATING AND CALIBRATING READ TEST STRINGS



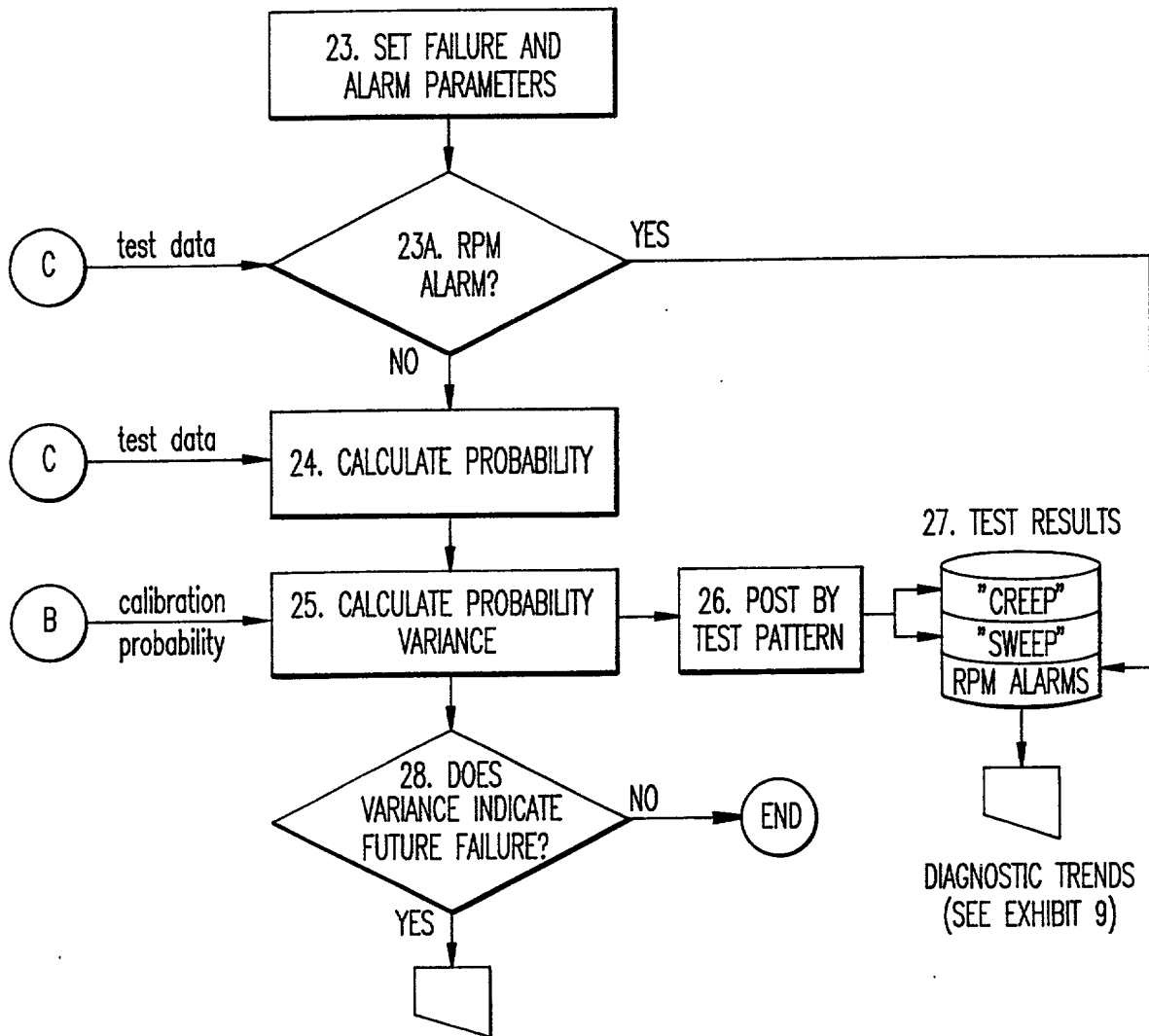
# FIG. 6

## TEST DATA ACQUISITION



# FIG. 7

## TEST ANALYSIS AND FAULT SOLUTIONS

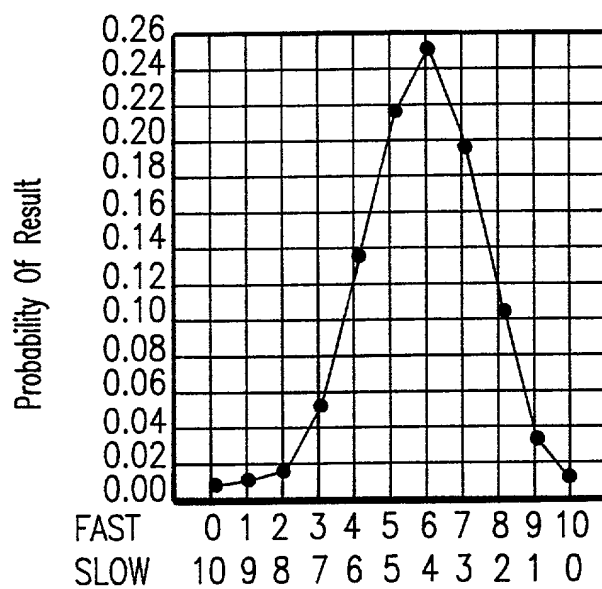


### ALARMS & FAULT SOLUTIONS

- \*Backup Files
- \*Replace Drive
- \*Inspect Drive At Computer Store
- \*Replace Computer

## FIG. 8

PROBABILITY OF 10-DAR MEASUREMENT  
READ CALIBRATION: 58% FAST, 42% SLOW

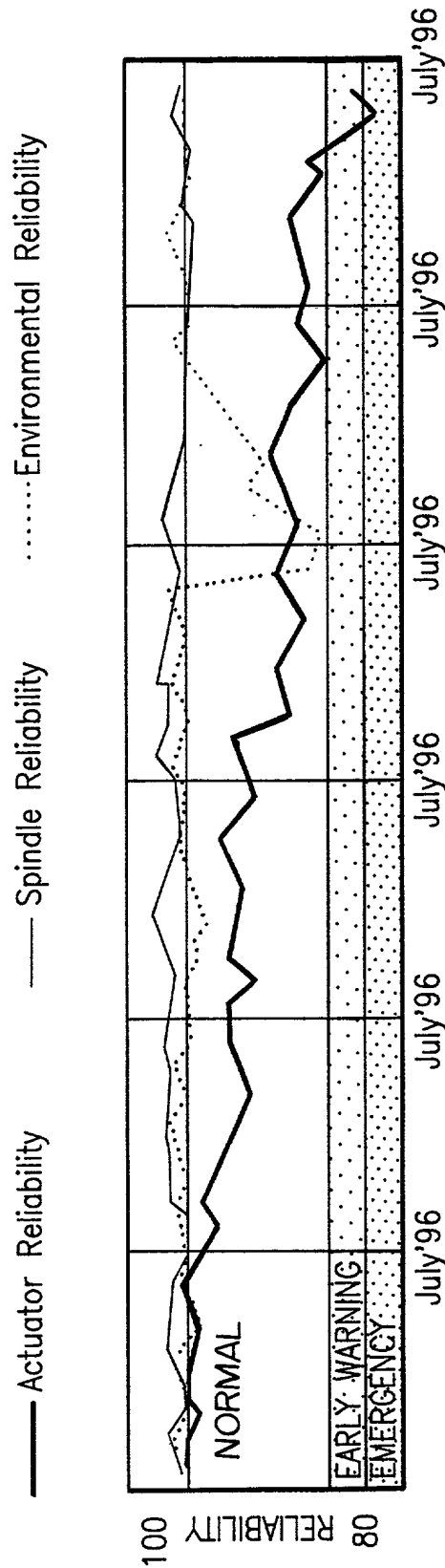


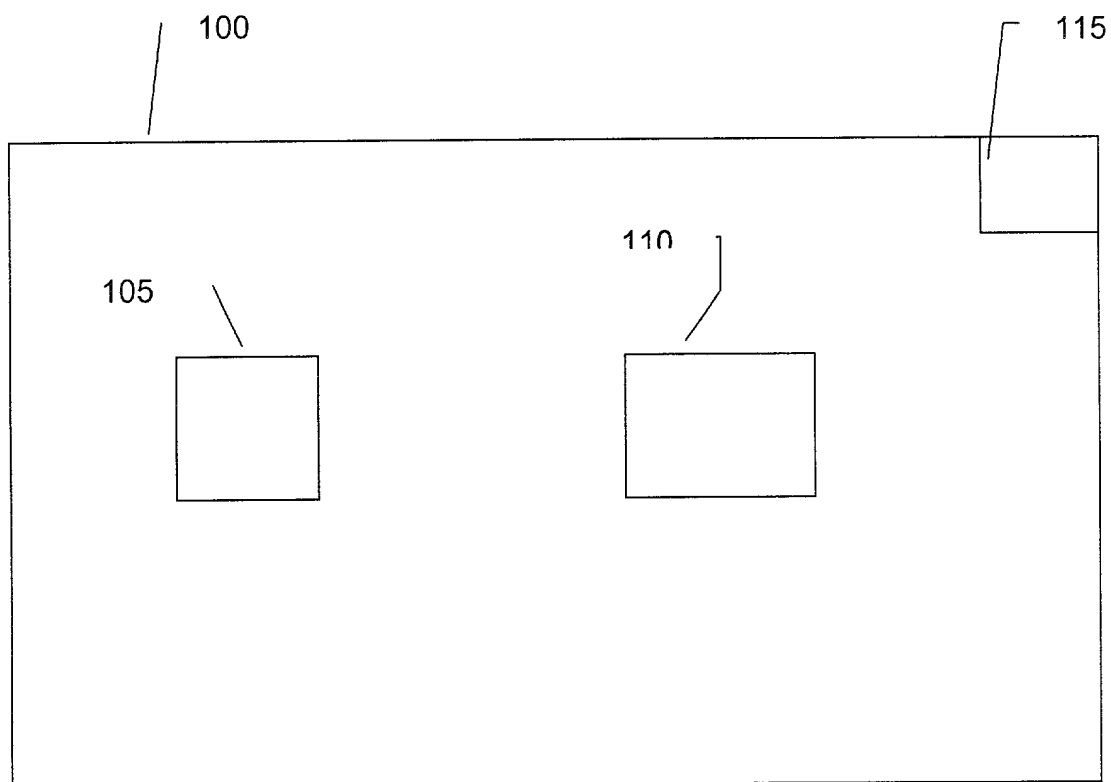
The probability sum of the 11 possible outcomes is 100%



FIG. 9

DIAGNOSTIC DRIVE RELIABILITY TRENDS





**FIGURE 10**

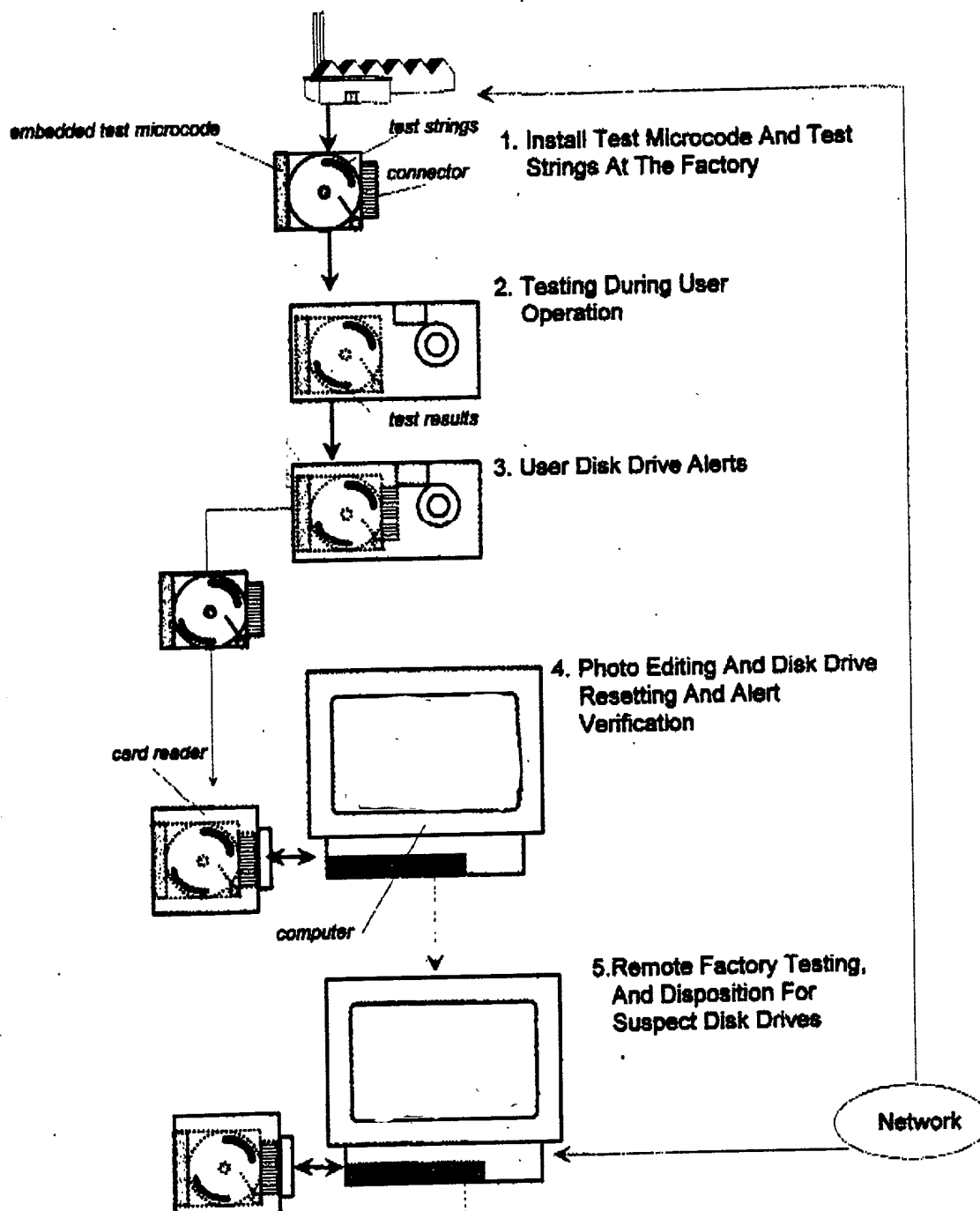


FIGURE 11

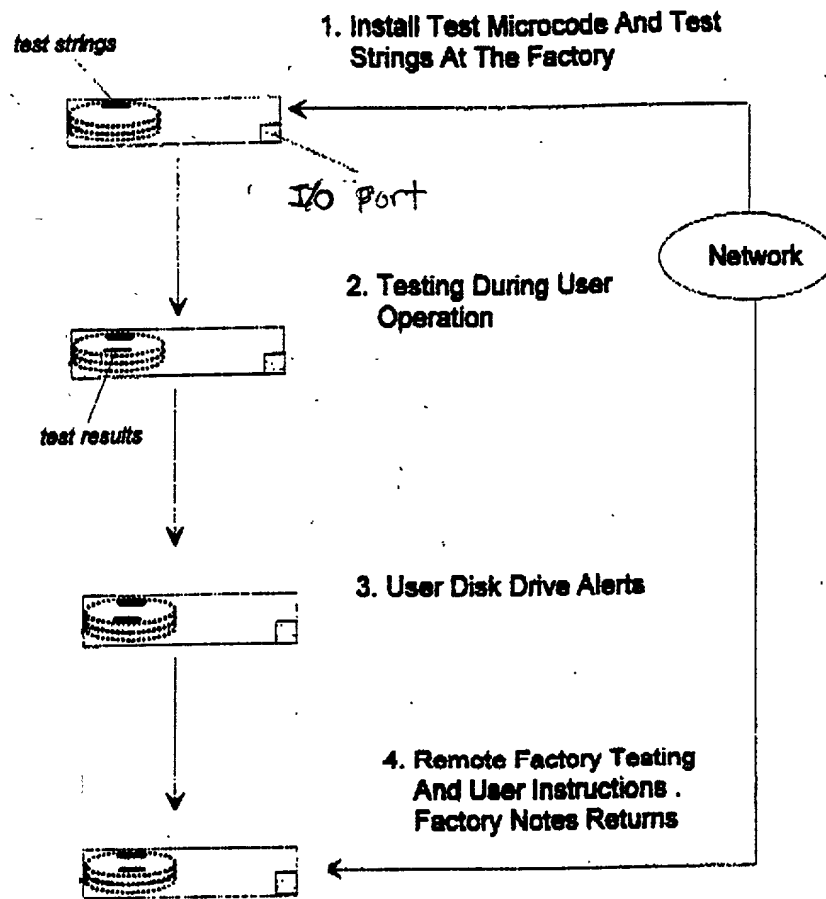


FIGURE 12